

SONY[®] ST-4950 FM STEREO/FM-AM TUNER

Features

- MOS FET front-end
- Computer designed phase-linear solid-state ceramic filters in IF stage
- Phase-Locked-Loop MPX stage
- FM interstation muting
- Defeatable AFC
- High blend switch
- Center station meter, plus signal strength meter for accurate tuning with multipath indication
- LED tuning pointer and station indicator
- Variable output level control to match tuner with other program sources
- Automatic mono/stereo switching and stereo indicator light



SPECIFICATIONS

FM TUNER SECTION

Sensitivity, IHF: 1.9 μ V

S/N ratio: 70dB

Capture ratio: 1.0dB

Selectivity, IHF: 80dB

Image rejection: 70dB

IF rejection: 100dB

Spurious rejection: 100dB

AM suppression: 53dB

Harmonic distortion: Mono—0.15%

at 400Hz, 100% modulation

Stereo—0.3% at 400Hz, 100% modulation

FM stereo separation: Better than 40dB at 400Hz

FM frequency response:

20Hz—15kHz, \pm 1dB

AM TUNER SECTION

Sensitivity: 48dB/m built-in antenna, 100 μ V external antenna

S/N ratio: 50dB

Harmonic distortion: 0.5%

GENERAL SPECIFICATIONS

Semiconductors: 3 IC's, 4 FET's, 23 transistors, 20 diodes, 1 LED

Power requirements: AC 120V, 60Hz, 22W

Dimensions: 6 $\frac{1}{4}$ "H x 16 $\frac{3}{4}$ "W x 13"D

Weight: 17 lbs.

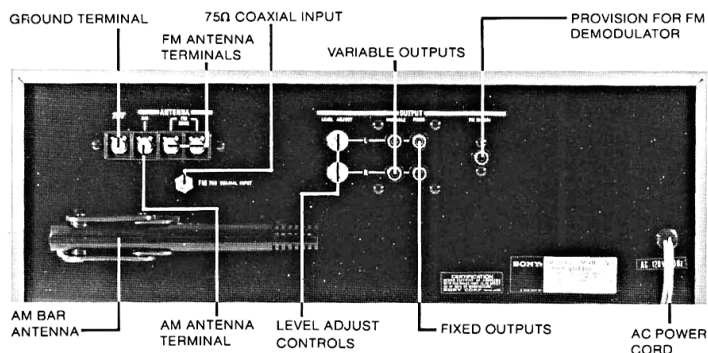
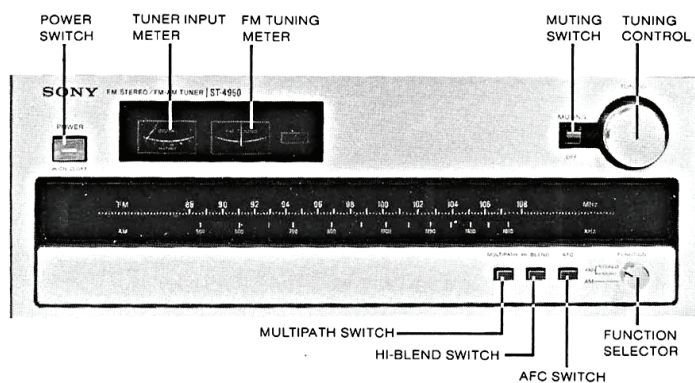
The ST-4950's capacity for crystal clear reception is numerically defined by its exceptional spec ratings. To give a fuller idea of how Sony's advanced engineering concepts have achieved an overall level of excellence, major circuitry and control features are described below.

FM Section The MOS FET front-end (RF and mixer stages) of the FM tuner is another ingredient, leading to good sensitivity, very high overload capability, and high image, high cross modulation rejection. The IF amplifier section, combined with the inherently quiet front-end, insures high selectivity and long term stability, with permanently aligned solid-state filters, and a wide band-pass characteristic with extremely linear phase response. The result is a capture ratio of only 1.0dB, overall selectivity of 80dB, and an S/N ratio of 70dB.

FM stereo is also outstanding. The PLL circuit along with the linear phase wide band characteristic and response of IF stage assures high stability, excellent stereo separation and low distortion in the MPX stage.

AM Section The AM tuner's IF amplifier with high selectivity solid-state filters and automatic gain control operate to give the ST-4950 good sensitivity and S/N ratings, with low harmonic and IM distortion. ST-4950 listeners will be surprised by the remarkably clear AM performance.

Tuning Accurate tuning is essential for pure FM sound, but on today's crowded FM dial it's not always a simple operation. The ST-4950 provides listeners with an accurate and convenient method of tuning, offering easy to read meters for center station and signal strength indication plus multipath indication facility. This combination, along with LED tuning pointer/station indication, the long frequency linear dial scale, smooth flywheel tuning action and highly effective FM interstation muting, makes tuning simple and precise. AFC can be switched off when desired.



SONY®

CORPORATION OF AMERICA

9 West 57th Street, New York, N.Y. 10019